

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/634,262A
Source: IFw16
Date Processed by STIC: 12/10/04

ENTERED

CRF Errors Edited by the STIC Systems Branch

Serial Number: 10/634,262A

CRF Edit Date: 12/13/04
Edited by: AZ

_____ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

_____ Corrected the SEQ ID NO. Sequence numbers edited were:

_____ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

_____ Deleted: _____ invalid beginning/end-of-file text ; _____ page numbers

J

_____ Inserted mandatory headings/numeric identifiers, specifically:

Sequence 37 - inserted <220> above <221>

_____ Moved responses to same line as heading/numeric identifier, specifically:

J

Other:

corrected <141> and <151> responses



IFW16

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/634,262A

DATE: 12/13/2004

TIME: 16:07:07

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\12132004\J634262A.raw

3 <110> APPLICANT: Myers, Alan M.
 4 James, Martha G.

W--> 5 <120> TITLE OF INVENTION: dull1 Coding for a Novel Starch Synthase and Uses
 W--> 6 Thereof

W--> 7 <130> FILE REFERENCE: ISU-003BX

W--> 8 <140> CURRENT APPLICATION NUMBER: US 10/634,262A
 9 <141> CURRENT FILING DATE: 2003-08-05

10 <150> PRIOR APPLICATION NUMBER: US 09/554,467
 11 <151> PRIOR FILING DATE: 2000-05-12

W--> 12 <160> NUMBER OF SEQ ID: 37
 14 <210> SEQ ID NO: 1
 15 <211> LENGTH: 6027
 16 <212> TYPE: DNA
 17 <213> ORGANISM: maize

W--> 18 <220> FEATURE:
 19 <223> OTHER INFORMATION: cDNA sequence corresponding to the gene encoding the
 20 starch synthase enzyme DUL.

W--> 21 <400> SEQUENCE: 1

23	gaattcccta	gttcagagaa	agaaaagaagt	tgagaatgag	aagcaagtga	ggcgcgtttg	60
24	ctgggaagtg	gttcttgtga	ggtttaggag	ttcaccccttc	ttttcttccc	cttctagaaaa	120
25	tggagatgg	cctacggctcg	cagagccctc	tctgccttcg	gagtgggcgg	gtgctcattt	180
26	ttcgaccaac	cgtcgccggc	ggaggagggg	gcactcagtc	tttgggtgagg	actaccagat	240
27	ttgcgagaag	aagggtcatt	cgtatgcgttg	tagcaagtcc	agggttgtcct	aataggaaat	300
28	ctaggacago	gtctccaaac	gtaaaagtag	ctgtttatag	caaactatgca	ccaagactcc	360
29	tcgtttagtc	aagctccaag	aagagcgaac	accatgatag	cagcagacac	cgtgaagaaaa	420
30	ctattgatac	atacaatggg	ctgtcaggtt	ctgtatgcagc	agaattgaca	agtaatagag	480
31	atgtagaaat	tgaagtggat	ttgcagcaca	tttcttgagga	gaaattgcca	ggaaaagttat	540
32	cgattaatgc	atcatttagga	gaaatggaaa	cagtggatga	agctgaggc	gaggaggata	600
33	agttttaggt	agataacctca	gaaattgttat	tgcgcattgt	tgcagttcgg	gaagtggatc	660
34	caaaggatga	acataatgtct	aaagatgttat	tttgtgttgc	tgcgtcagga	actgcaccag	720
35	ataatgtctc	agtggaggaa	gtggtagatg	aagctgaggat	tgaagaggat	atgggtgatg	780
36	tggatatatctt	gggacttgac	ttgaataatgc	caacgatcga	gaaaattgtat	ttgtatggaaag	840
37	aggctttact	ggagaacttc	gacgtggatt	caccaggcaa	tgcttctagt	ggtcgaacct	900
38	atgggggtgt	ggatgagtttgc	ggatgagtttgc	cttcaacatc	cgtggattgc	atcgccatta	960
39	acggaaaacgc	tagaagtttgc	aaggcttaagc	ccttgc当地	tgtcaggatgc	caggaaacaag	1020
40	aacagatagt	tttaaggcatt	gttgacgaaag	aagggttgc	tgcgttgc	tgtgaagaag	1080
41	gccaaaccgg	gttagattac	gataagcaag	aggaaaactc	taccgcgttc	gatgaacaga	1140
42	agcaattaaac	tgtatgttgc	cctgaagaag	gcataatctat	agttcacttc	cctgagccaa	1200
43	acaatgtat	tgttgatcc	tccaaattct	tggagaaaa	acaagaatgg	gatgggttctt	1260
44	ataaaacaaga	tcgatcaacc	actggattgc	atgaacaaga	tcaagtcttt	gttagttcac	1320
45	acggacaaga	taaatcaatt	gttgggtgtgc	ctcagcaat	ccagtacaat	gatcaatcta	1380
46	ttgctggttc	tcatagacaa	gatcaatcaa	ttgccccgtgc	acctgagcaa	atccaatccg	1440
47	ttgctggctaa	tataaaacca	aatcaatcta	ttgttggttc	ttgtaaacaa	catgaattga	1500

RAW SEQUENCE LISTING
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Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF4\12132004\J634262A.raw

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48 ttattcctga gcctaagaaa atcgaatcca tcatacggtt caatgaaata gatcaatcta 1560
49 ttgttggttc tcacaaccaa gacaaatctg ttgttagtgt gcctgagcaa atccaatcca 1620
50 ttgttagtca cagcaaacca aatcaatcta ctgttgattc ttatagacaa gctgaatcaa 1680
51 ttattgggt gcctgagaaa gtccaatcca tcaccaggta cgataaaacta gaccagtcca 1740
52 ttgttggttc tcttaaaccaa gatgagccta ttattagcgt gcctgagaaa atccaatcca 1800
53 ttgtccatta cactaaacca aatcagtcata ttgttggctt gcccaaaccaa caacaatcaa 1860
54 ttgttcatat cgttgaacca aaacagtcca tagatggtt ccctaaaccaa gatctatcaa 1920
55 tcgttggtat ctccaaatgag tttccaaaccaa agcaactggc tactgttggg actcatgatg 1980
56 gattgcttat gaagggtgtg gaagctaagg agacatctca aaagactgaa ggggatacac 2040
57 ttcaggcaad gttcaatgtc gacaacttgt cacagaaaca ggaaggctt actaaagaag 2100
58 cagacgagat aacaattatt gagaaaaatca atgatgaaga cttgtgtatg attgaagaac 2160
59 agaaaagcat agccatgaat gaagaacaga cgattgttac cgaagaagac attccaatgg 2220
60 ctaaggttga gataggaatt gacaaggcca aattttaca tctgctttt gaagaagaga 2280
61 gttcatggga tgaaaatgaa gtgggataaa ttgaggctga tgaacagttt gaagtgcgt 2340
62 agacatctat gtccactgaa caagatatacc aggaatcacc taatgtatgtat ttggatccac 2400
63 aagcactatg gatgtatgtt caagagctt ctgaaaaaaaa ttattcgctg ggaacaagt 2460
64 tggttactta tccagatgtt ttgaaaagctt attcaacaat tgatctctat ttcaatcggt 2520
65 attatcago tggcccaat gaggctgtatg tacttatcaa aggagcatc aatgggtgga 2580
66 agtggagatt ttcaactgaa aaattgcaca agagcgagct ggcaggggac tgggtgtct 2640
67 gcaaactata cattccaaatg caggcataca gaatggactt tgggtttttt aacggacaca 2700
68 cggtatatga aaataataac aataatgtatt tcgtgataca aatagaaagc accatggatg 2760
69 aaaattttt tgaggatttc ttggctgaaag aaaagcaacg agaactttag aacccgtcaa 2820
70 atgaggaago tgaaaaggagg agacaaactg atgagcagcg gcgaatggg gaagaaaggg 2880
71 cccgagataa agctgacagg gtacaagcca aggttgggtt agagacgaa aagaataaat 2940
72 tggcaatgtt attgggttta gccagagctc ctgttgataa ttatgggtac attgagccca 3000
73 tcacgactgg acaagaggct actgtcagat tggattataa cataaaactca agacctctag 3060
74 ttacacgtac tgagatatgg atgcattggg gctataacaa ttggattgtat ggactcttt 3120
75 ttgctgaaag gcttgcatt catcatgaca aagattgtga ttgggtgggtt gcagatgtt 3180
76 tcgtgcctga aagaacatataat gtattggact gggttttgc tgacggccca ccaggagtg 3240
77 caaggaattt tgacaacaaat ggaggacatg attttcatgc tacccttcca aataacatga 3300
78 ctgaggaaga gtattggatg gaagaagaac aaaggatcta tacaaggctt caacaagaga 3360
79 ggagggaaag ggaggaggct attaaaaggaa aggctgagag aatgcacaaa atgaaagctg 3420
80 agatgaagga aaagactatg agaatgttcc tggttctca gaaacacatt gtttacaccg 3480
81 aaccacttga aatacatgtt ggaactacta ttgatgtgtt ttataatctt tctaatacag 3540
82 ttctaaactgg aaagccagag gtttggttt gatgttccctt taatcggtt atgtatccag 3600
83 gtgggggtt gcccacccatc aagatggatc aacgagaaaa tggttcacac ctaaaagcaa 3660
84 cagttacgt tccacgagat gcctatatgtt tggacttcgt tttctcgag tcagaagaag 3720
85 gtggaaattt tgataacaga aatgggttag actatcatat tcctgtttt gggtaattt 3780
86 caaaggaacc acctatgcac attgtccaca ttgctgttga gatggccacca atcgaaagg 3840
87 ttggaggctt tggtgatgtt gtcactagtc ttccacgttgc tggcaagat tttaggacaca 3900
88 atgtggaggt tattcttcca aagtacgggtt gcttgaatct aagcaatgtc aagaatctac 3960
89 aaatccatca gagttttct tgggggtgggtt ctgaaaataaa tggatgtggctt ggactgtcg 4020
90 aaggcccttgc tggttacttc ctggaaacccca aaaatggat gtttggatgc ggatatgtat 4080
91 atggcaggga cgttgcacccgc cgttggct tcttcgttgc ttctgttca gatgttctcc 4140
92 tccaaagtgg atcttctccg aacataatac attgcatttca ttggatgtt gctcctgtt 4200
93 cctggctaca caagggaaac tacggcaagt ctggatgttgc aaacgcacgg gtggatttca 4260
94 ccatccacaa tcttgaattt ggagcgcattt atattggcaaa agcaatgaga tattgtata 4320
95 aagcaacaac tggatgttcaat acatattca aggaagtgtc aggtcatgtt gccatagttc 4380
96 ctcatcttgg gaaattctat ggcatttctca atggatgttca tccggatata tggatccgt 4440

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RAW SEQUENCE LISTING DATE: 12/13/2004
 PATENT APPLICATION: US/10/634,262A TIME: 16:07:07

Input Set : A:\PTO.AMC.txt
 Output Set: N:\CRF4\12132004\J634262A.raw

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97 acaatgacaa ctttatcccg gtccactaca cttgtgagaa tgtggttgaa ggcaagaggg 4500
98 ctgctaagag ggcactgcag cagaagtttggttacagca aatcgatgtc cccgtcgtag 4560
99 gaatcgtaac tgcctgaca gccaaaagg ggatccacct gatcaagcat gcgattcacc 4620
100 gtacactcga acggaacgga caggtggtt tgcttggttc agcgcggac tctcgaatcc 4680
101 aagctgattt tgtcaacctg gcaatacgc tccacggcgt aaaccatggg caagtggaggc 4740
102 ttcccttgc acgacgag octctctcgc atctgatata cgctggctc gacttcattc 4800
103 tggtcccatt tatattttag ctttgcggcc taactcagct cgctggcatg cggatggaa 4860
104 ccatcccgat tgcctgcaag actggaggcgt tcttgcacac tgccttcgt gtggacaatg 4920
105 acaaggaacg agcccgagat cgaggcctt agcccaacgg gtttagctt gacggagctg 4980
106 atagcaacgg tggactac ggcgtgaaca gggcgatctc agcttgggtc gatgccccgga 5040
107 gctggttcca ctcccttgc aagagagtca tggagcagga ctggcgtgg aaccgacactg 5100
108 ccctcgacta catcgagctc taccgttca gtcggccatt gtaataatcc aaacaacggc 5160
109 caatgttagt tggacttcgc aggtctcaga tgcagccatt cagctttgc aggttcctgg 5220
110 gcattgctgt acagcttcct tgccttttagt tagtccatt ccccgaggag cacagtgc当地 5280
111 tttttatcc tcagtttata tgcatacgtt gtctcgttag aatgcatttct tcgggcatgt 5340
112 atgtttgtt cctctgttgt tgaattctgg tggtaactcg cgtataggaa tctacaggaa 5400
113 atgaaaaaagt ccatttcctg cgtcaacccctt tagggctac catgcacatg agaccttca 5460
114 agtgc当地aaa atattaggac tagactacta gtatgtgaac tctattttc caagagattt 5520
115 caattttcc aatgaaaaat aaactaattt ttcttggaaa aatggaaatc ccttggaaaa 5580
116 atggggttcc caaactagcc cgttagagat agatcataga attggcttag tggcctcgt 5640
117 agagagaaaa aaacatagac ttttcttgc atatgc当地t ttaagttt tttgtacaaa 5700
118 ctttgc当地aa accttccaaac accccaaatgg ctggtaagt gaccaggaa ataaagagga 5760
119 tctataggga ggaatcccccc gcctctctcacagatgtt gcctagcacc ggcagccctc 5820
120 atccgtccag tggattaag gttgggttgc acgacagccc atcaatggaa accaacctcg 5880
121 tgccccgtgc cggatctac cttccctcaccaccaccc cccatctcac cttccatagg 5940
122 agcttcctat gcactgttac ctattatagg tacatgacat tgtacatctt tgtatgaact 6000
123 tacatcaatg cccaaaatcc ggaattc 6027

125 <210> SEQ ID NO: 2
126 <211> LENGTH: 21
127 <212> TYPE: DNA
128 <213> ORGANISM: artificial sequence
W--> 129 <220> FEATURE:
130 <221> NAME/KEY: primer_bind
131 <223> OTHER INFORMATION: Primer dul-spl used to amplify fragment F500 from pJW3
W--> 132 <400> SEQUENCE: 2
133 gtacaatgac aactttatcc c 21
135 <210> SEQ ID NO: 3
136 <211> LENGTH: 23
137 <212> TYPE: DNA
138 <213> ORGANISM: artificial sequence
W--> 139 <220> FEATURE:
140 <221> NAME/KEY: primer_bind
141 <223> OTHER INFORMATION: Primer dul-sp2 used to amplify fragment F500 from pJW3
W--> 142 <400> SEQUENCE: 3
143 cattctcaca agtgttagtgg acc 23
145 <210> SEQ ID NO: 4
146 <211> LENGTH: 20
147 <212> TYPE: DNA
148 <213> ORGANISM: artificial sequence

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RAW SEQUENCE LISTING

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Input Set : A:\PTO.AMC.txt

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W--> 149 <220> FEATURE:

150 <221> NAME/KEY: primer_bind
 151 <223> OTHER INFORMATION: Primer dul-sp4 used to amplify cloned BamHI fragment.

W--> 152 <400> SEQUENCE: 4

153 gtcgttagaa tcgtcactcg 20

155 <210> SEQ ID NO: 5

156 <211> LENGTH: 20

157 <212> TYPE: DNA

158 <213> ORGANISM: artificial sequence

W--> 159 <220> FEATURE:

160 <221> NAME/KEY: primer_bind
 161 <223> OTHER INFORMATION: (1030 primer located 19 bp proximal to EcoRI cloning site in the left arm in (gt11 phage DNA used to amplify cDNA inserts

W--> 164 <400> SEQUENCE: 5

165 attgggtggcg acgactcctg 20

167 <210> SEQ ID NO: 6

168 <211> LENGTH: 20

169 <212> TYPE: DNA

170 <213> ORGANISM: artificial sequence

W--> 171 <220> FEATURE:

172 <221> NAME/KEY: primer_bind
 173 <223> OTHER INFORMATION: (1356 primer located 281 bp distal to EcoRI cloning site in the LacZ' region in the right arm in (gt11 phage DNA used to amplify cDNA inserts.

W--> 176 <400> SEQUENCE: 6

177 gtgtgggggt gatggcttcc 20

179 <210> SEQ ID NO: 7

180 <211> LENGTH: 20

181 <212> TYPE: DNA

182 <213> ORGANISM: artificial sequence

W--> 183 <220> FEATURE:

184 <221> NAME/KEY: primer_bind
 185 <223> OTHER INFORMATION: Primer du-F3 used to amplify Dul mRNA

W--> 186 <400> SEQUENCE: 7

187 ataaatgtgt ggcgtggact 20

189 <210> SEQ ID NO: 8

190 <211> LENGTH: 20

191 <212> TYPE: DNA

192 <213> ORGANISM: artificial sequence

W--> 193 <220> FEATURE:

194 <221> NAME/KEY: primer_bind
 195 <223> OTHER INFORMATION: Primer du-R1 used to amplify Dul mRNA

W--> 196 <400> SEQUENCE: 8

197 cgttccttgt cattgtccac 20

198 <210> SEQ ID NO: 9

199 <211> LENGTH: 6

200 <212> TYPE: PRT

201 <213> ORGANISM: maize

RAW SEQUENCE LISTING
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Input Set : A:\PTO.AMC.txt
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W--> 202 <220> FEATURE:
 203 <222> LOCATION: REPEAT
 204 <223> OTHER INFORMATION: Six residue M-box sequence in first half-repeat of ten
 205 residue sequence of SBE-repeat in DU1.
 W--> 206 <400> SEQUENCE: 9
 207 Asp Gln Ser Ile Val Gly
 208 1 5
 210 <210> SEQ ID NO: 10
 211 <211> LENGTH: 4
 212 <212> TYPE: PRT
 213 <213> ORGANISM: maize
 W--> 214 <220> FEATURE:
 215 <222> LOCATION: REPEAT
 216 <223> OTHER INFORMATION: Four residue sequence of second half-repeat of
 217 ten residue SBE-repeat sequence in DU1.
 W--> 218 <400> SEQUENCE: 10
 219 Ser His Lys Gln
 220 1
 222 <210> SEQ ID NO: 11
 223 <211> LENGTH: 6
 224 <212> TYPE: PRT
 225 <213> ORGANISM: unknown
 W--> 226 <220> FEATURE:
 227 <222> LOCATION: REPEAT
 228 <223> OTHER INFORMATION: M-box sequence in SBEI enzyme.
 W--> 229 <400> SEQUENCE: 11
 230 Asp Gln Ala Leu Val Gly
 231 1 5
 233 <210> SEQ ID NO: 12
 234 <211> LENGTH: 1674
 235 <212> TYPE: PRT
 236 <213> ORGANISM: maize
 W--> 237 <220> FEATURE:
 238 <223> OTHER INFORMATION: Deduced amino acid sequence of starch synthase DU1.
 W--> 239 <400> SEQUENCE: 12
 240 Met Glu Met Val Leu Arg Ser Gln Ser Pro Leu Cys Leu Arg Ser
 241 1 5 10 15
 243 Gly Pro Val Leu Ile Phe Arg Pro Thr Val Ala Gly Gly Gly
 244 20 25 30
 246 Gly Thr Gln Ser Leu Leu Arg Thr Thr Arg Phe Ala Arg Arg Arg
 247 35 40 45
 249 Val Ile Arg Cys Val Val Ala Ser Pro Gly Cys Pro Asn Arg Lys
 250 50 55 60
 252 Ser Arg Thr Ala Ser Pro Asn Val Lys Val Ala Ala Tyr Ser Asn
 253 65 70 75
 255 Tyr Ala Pro Arg Leu Leu Val Glu Ser Ser Ser Lys Lys Ser Glu
 256 80 85 90
 259 His His Asp Ser Ser Arg His Arg Glu Glu Thr Ile Asp Thr Tyr
 260 95 100 105

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/634,262A

DATE: 12/13/2004

TIME: 16:07:08

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\12132004\J634262A.raw

L:5 M:283 W: Missing Blank Line separator, <120> field identifier
L:7 M:283 W: Missing Blank Line separator, <130> field identifier
L:8 M:283 W: Missing Blank Line separator, <140> field identifier
L:12 M:283 W: Missing Blank Line separator, <160> field identifier
L:18 M:283 W: Missing Blank Line separator, <220> field identifier
L:21 M:283 W: Missing Blank Line separator, <400> field identifier
L:129 M:283 W: Missing Blank Line separator, <220> field identifier
L:132 M:283 W: Missing Blank Line separator, <400> field identifier
L:139 M:283 W: Missing Blank Line separator, <220> field identifier
L:142 M:283 W: Missing Blank Line separator, <400> field identifier
L:149 M:283 W: Missing Blank Line separator, <220> field identifier
L:152 M:283 W: Missing Blank Line separator, <400> field identifier
L:159 M:283 W: Missing Blank Line separator, <220> field identifier
L:164 M:283 W: Missing Blank Line separator, <400> field identifier
L:171 M:283 W: Missing Blank Line separator, <220> field identifier
L:176 M:283 W: Missing Blank Line separator, <400> field identifier
L:183 M:283 W: Missing Blank Line separator, <220> field identifier
L:186 M:283 W: Missing Blank Line separator, <400> field identifier
L:193 M:283 W: Missing Blank Line separator, <220> field identifier
L:196 M:283 W: Missing Blank Line separator, <400> field identifier
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L:206 M:283 W: Missing Blank Line separator, <400> field identifier
L:214 M:283 W: Missing Blank Line separator, <220> field identifier
L:218 M:283 W: Missing Blank Line separator, <400> field identifier
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L:229 M:283 W: Missing Blank Line separator, <400> field identifier
L:237 M:283 W: Missing Blank Line separator, <220> field identifier
L:239 M:283 W: Missing Blank Line separator, <400> field identifier
L:588 M:283 W: Missing Blank Line separator, <220> field identifier
L:589 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:13
L:593 M:283 W: Missing Blank Line separator, <400> field identifier
L:610 M:283 W: Missing Blank Line separator, <220> field identifier
L:612 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:612 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:14
L:615 M:283 W: Missing Blank Line separator, <400> field identifier
L:632 M:283 W: Missing Blank Line separator, <220> field identifier
L:634 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:634 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:15
L:637 M:283 W: Missing Blank Line separator, <400> field identifier
L:653 M:283 W: Missing Blank Line separator, <220> field identifier
L:654 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:16
L:657 M:283 W: Missing Blank Line separator, <400> field identifier
L:664 M:283 W: Missing Blank Line separator, <220> field identifier
L:665 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:17
L:668 M:283 W: Missing Blank Line separator, <400> field identifier
L:675 M:283 W: Missing Blank Line separator, <220> field identifier
L:676 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:18
L:679 M:283 W: Missing Blank Line separator, <400> field identifier

VERIFICATION SUMMARY

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Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\12132004\J634262A.raw

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L:688 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:19
L:691 M:283 W: Missing Blank Line separator, <400> field identifier
L:699 M:283 W: Missing Blank Line separator, <220> field identifier
L:700 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:20
L:703 M:283 W: Missing Blank Line separator, <400> field identifier
L:711 M:283 W: Missing Blank Line separator, <220> field identifier
L:712 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:21
L:715 M:283 W: Missing Blank Line separator, <400> field identifier
L:723 M:283 W: Missing Blank Line separator, <220> field identifier
L:724 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:22
L:727 M:283 W: Missing Blank Line separator, <400> field identifier
L:735 M:283 W: Missing Blank Line separator, <220> field identifier
L:736 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:23
L:739 M:283 W: Missing Blank Line separator, <400> field identifier
L:748 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:24
L:763 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:25
L:778 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:26
L:793 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:27
L:808 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:28
L:820 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:29
L:834 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:30
L:849 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:31
L:865 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:32
L:881 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:33
L:897 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:34
L:1183 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:37



IFW16

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/634,262A

DATE: 12/10/2004
TIME: 10:51:32

Input Set : A:\ISU-003AX Seq.txt
Output Set: N:\CRF4\12102004\J634262A.raw

3 <110> APPLICANT: Myers, Alan M.
4 James, Martha G.
W--> 5 <120> TITLE OF INVENTION: dull1 Coding for a Novel Starch Synthase and Uses
W--> 6 Thereof
W--> 7 <130> FILE REFERENCE: ISU-003BX
W--> 8 <140> CURRENT APPLICATION NUMBER: US 10/634,262A
9 <141> CURRENT FILING DATE: (2003-8-5) 2003-08-05
10 <150> PRIOR APPLICATION NUMBER: US 09/554,467
W--> 11 <151> PRIOR FILING DATE: (2000-5-12) 2000-05-12
W--> 12 <160> NUMBER OF SEQ ID: 37

ERRORED SEQUENCES

1178 <210> SEQ ID NO: 37
1179 <211> LENGTH: 32
1180 <212> TYPE: DNA
1181 <213> ORGANISM: artificial sequence
W--> 1182 <221> NAME/KEY: primer
W--> 1183 <220> FEATURE:
1183 <223> OTHER INFORMATION: Primer containing restriction sites
E--> 1184 <400> SEQUENCE: 37
1185 aaacccggaaattcgatggagatggcctacg

*Does Not Comply
Connected Diskette Needed
Insert
a <220> above <221> line*

32

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/634,262A

DATE: 12/10/2004

TIME: 10:51:33

Input Set : A:\ISU-003AX Seq.txt

Output Set: N:\CRF4\12102004\J634262A.raw

L:5 M:283 W: Missing Blank Line separator, <120> field identifier
L:7 M:283 W: Missing Blank Line separator, <130> field identifier
L:8 M:283 W: Missing Blank Line separator, <140> field identifier
L:9 M:256 W: Invalid Numeric Header Field, Wrong Current FILING DATE:YYYY-MM-DD
L:11 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD
L:12 M:283 W: Missing Blank Line separator, <160> field identifier
L:18 M:283 W: Missing Blank Line separator, <220> field identifier
L:21 M:283 W: Missing Blank Line separator, <400> field identifier
L:129 M:283 W: Missing Blank Line separator, <220> field identifier
L:132 M:283 W: Missing Blank Line separator, <400> field identifier
L:139 M:283 W: Missing Blank Line separator, <220> field identifier
L:142 M:283 W: Missing Blank Line separator, <400> field identifier
L:149 M:283 W: Missing Blank Line separator, <220> field identifier
L:152 M:283 W: Missing Blank Line separator, <400> field identifier
L:159 M:283 W: Missing Blank Line separator, <220> field identifier
L:164 M:283 W: Missing Blank Line separator, <400> field identifier
L:171 M:283 W: Missing Blank Line separator, <220> field identifier
L:176 M:283 W: Missing Blank Line separator, <400> field identifier
L:183 M:283 W: Missing Blank Line separator, <220> field identifier
L:186 M:283 W: Missing Blank Line separator, <400> field identifier
L:193 M:283 W: Missing Blank Line separator, <220> field identifier
L:196 M:283 W: Missing Blank Line separator, <400> field identifier
L:202 M:283 W: Missing Blank Line separator, <220> field identifier
L:206 M:283 W: Missing Blank Line separator, <400> field identifier
L:214 M:283 W: Missing Blank Line separator, <220> field identifier
L:218 M:283 W: Missing Blank Line separator, <400> field identifier
L:226 M:283 W: Missing Blank Line separator, <220> field identifier
L:229 M:283 W: Missing Blank Line separator, <400> field identifier
L:237 M:283 W: Missing Blank Line separator, <220> field identifier
L:239 M:283 W: Missing Blank Line separator, <400> field identifier
L:588 M:283 W: Missing Blank Line separator, <220> field identifier
L:589 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:13
L:593 M:283 W: Missing Blank Line separator, <400> field identifier
L:610 M:283 W: Missing Blank Line separator, <220> field identifier
L:612 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:612 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:14
L:615 M:283 W: Missing Blank Line separator, <400> field identifier
L:632 M:283 W: Missing Blank Line separator, <220> field identifier
L:634 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:634 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:15
L:637 M:283 W: Missing Blank Line separator, <400> field identifier
L:653 M:283 W: Missing Blank Line separator, <220> field identifier
L:654 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:16
L:657 M:283 W: Missing Blank Line separator, <400> field identifier
L:664 M:283 W: Missing Blank Line separator, <220> field identifier
L:665 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:17
L:668 M:283 W: Missing Blank Line separator, <400> field identifier
L:675 M:283 W: Missing Blank Line separator, <220> field identifier

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/634,262A

DATE: 12/10/2004

TIME: 10:51:33

Input Set : A:\ISU-003AX Seq.txt

Output Set: N:\CRF4\12102004\J634262A.raw

L:676 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:18
L:679 M:283 W: Missing Blank Line separator, <400> field identifier
L:687 M:283 W: Missing Blank Line separator, <220> field identifier
L:688 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:19
L:691 M:283 W: Missing Blank Line separator, <400> field identifier
L:699 M:283 W: Missing Blank Line separator, <220> field identifier
L:700 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:20
L:703 M:283 W: Missing Blank Line separator, <400> field identifier
L:711 M:283 W: Missing Blank Line separator, <220> field identifier
L:712 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:21
L:715 M:283 W: Missing Blank Line separator, <400> field identifier
L:723 M:283 W: Missing Blank Line separator, <220> field identifier
L:724 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:22
L:727 M:283 W: Missing Blank Line separator, <400> field identifier
L:735 M:283 W: Missing Blank Line separator, <220> field identifier
L:736 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:23
L:739 M:283 W: Missing Blank Line separator, <400> field identifier
L:748 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:24
L:763 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:25
L:778 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:26
L:793 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:27
L:808 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:28
L:820 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:29
L:834 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:30
L:849 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:31
L:865 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:32
L:881 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:33
L:897 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:34
L:1182 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:37
L:1183 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:37
L:1184 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:37